**CHAPTER 4 Test (with a bit of chapter 3 review..)**

REVIEW from CHAPTER 3:

-factoring completely a trinomial ax² + bx + c (a=1) (might involve factoring out common factor first)

-simplifying a polynomial expression that might involve FOIL; might involve distributing the negative before the bracket..

-identifying numbers that are prime or not prime (knowing the definition would help you)

**CHAPTER 4:**

4.1 – knowing how to use your calculator:

-to find a root (like 8th root)

-to find the answer to a decimal with a fractional exponent

4.2 – identifying a number as integer, rational or irrational

4.3 – writing an entire radical as a mixed radical in simplest form (including large numbers – use prime factorization to find perfect square if needed)

-writing a mixed radical as an entire radical

-writing a set of numbers in order that involve radicals (including cube roots etc.), fractions

-Given area of a square, find side length (write as mixed radical). Then find perimeter of square (as mixed radical).

-Find the error in an answer simplifying an entire radical to mixed radical

4.4 -converting a term with a rational exponent to its radical equivalent

-evaluate a term with a rational exponent – showing all steps

-question like p. 226 example 4

4.5 -simplifying a rational expression that has positive and negative exponents

4.6 -simplifying an expression to the power of a negative exponent

-simplify an expression to the power of a rational exponent

-simplify an expression that has rational exponents (using exponent laws) and then evaluate

-simplify an expression with radicals, using exponent laws